

Appl. No. 10/620,514
Docket No. D0287 NP

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): A transgenic ~~non-human mammal~~ mouse whose genome comprises a nucleic acid construct, wherein said construct comprises a reporter nucleic acid encoding a reporter operably linked to a promoter comprising an androgen response element (ARE), and said construct further comprises an androgen receptor nucleic acid encoding an androgen receptor, wherein expression of said reporter nucleic acid is regulated by expression of said androgen receptor nucleic acid, and wherein said androgen receptor nucleic acid is expressed in said ~~mammal~~ mouse in at least one tissue selected from the group consisting of lung, heart, liver, testis, bone, prostate, and kidney, such that said mouse has enhanced expression of androgen receptor relative to a wild type mouse in said at least one tissue.

Claim 2 (currently amended): The transgenic ~~non-human mammal~~ mouse of claim 1 wherein said reporter is luciferase.

Claim 3 (currently amended): The transgenic ~~non-human mammal~~ mouse of claim 1 wherein said androgen response element is 2XDR-1.

Claim 4 (currently amended): A cell isolated from the transgenic ~~non-human mammal~~ mouse of claim 1, wherein the genome of said cell comprises said nucleic acid construct.

Claim 5 (original): The cell of claim 4 wherein said reporter is luciferase.

Claim 6 (original): The cell of claim 4 wherein said androgen response element is 2XDR-1.

Claim 7 (currently amended): A ~~mouse~~ cell line comprising the cell of claim 4.

Claim 8 (original): An isolated nucleic acid construct that comprises a reporter nucleic acid encoding a reporter operably linked to a promoter comprising an androgen response element (ARE), and said construct further comprises an androgen receptor nucleic acid encoding an androgen receptor, and wherein expression of said reporter nucleic acid is regulated by expression of said androgen receptor nucleic acid.

Claim 9 (original): The construct of claim 8 wherein said reporter is luciferase.

Claim 10 (original): The construct of claim 8 wherein said androgen response element is 2XDR-1.

Appl. No. 10/620,514
Docket No. D0287 NP

Claim 11 (currently amended): A method for obtaining a transgenic mouse whose genome comprises a nucleic acid construct, wherein said construct comprises a reporter nucleic acid encoding a reporter operably linked to a promoter comprising an androgen response element (ARE), and said construct further comprises an androgen receptor nucleic acid encoding an androgen receptor, wherein expression of said reporter nucleic acid is regulated by expression of said androgen receptor nucleic acid, and wherein said androgen receptor nucleic acid is expressed in said ~~mammal~~ mouse in at least one tissue selected from the group consisting of lung, heart, liver, testis, bone, prostate, and kidney, such that said mouse has enhanced expression of androgen receptor relative to a wild type mouse in said at least one tissue,

wherein said mouse can be bred to produce progeny mice whose genomes comprise said nucleic acid construct, said method comprising the steps of:

- (a) isolating a fertilized egg from a first female mouse;
- (b) transferring a transgene comprising said nucleic acid construct into the fertilized egg;
- (c) transferring the fertilized egg of step (b) to the uterus of a pseudopregnant second female mouse; and
- (d) maintaining said second female mouse such that:
 - (i) said second female mouse becomes pregnant with an embryo derived from said fertilized egg of step (c);
 - (ii) said embryo develops into said ~~target~~ transgenic mouse; and
 - (iii) said ~~target~~ transgenic mouse is viably born from said second female mouse;

wherein the genome of said ~~target~~ transgenic mouse comprises said nucleic acid construct and wherein said mouse can be bred to produce progeny mice whose genomes comprise said nucleic acid construct.

Claim 12 (currently amended) A method for producing a transgenic mouse cell line that expresses a reporter nucleic acid, said method comprising:

- (a) isolating cells from the transgenic ~~non-human mammal mouse~~ mouse of claim 1 ~~that is a transgenic mouse~~; and
- (b) placing the isolated cells under conditions to maintain growth and viability of the isolated cells such that said transgenic mouse cell line expresses said reporter nucleic acid.

Appl. No. 10/620,514
Docket No. D0287 NP

Claim 13 (currently amended): A method of screening for a modulator of the androgen receptor, comprising administering a test substance to the transgenic ~~non-human mammal~~ mouse of claim 1 and assaying the effect of said test substance on the activity of the androgen receptor.

Claims 14-17 (canceled)

Claim 18 (previously presented): The transgenic non-human mammal of claim 1 wherein said nucleic acid construct comprises SEQ ID NO:1.

Claim 19 (previously presented): The method of claim 11 wherein said nucleic acid construct comprises SEQ ID NO:1.

Claim 20 (currently amended): The transgenic ~~non-human mammal~~ mouse of claim 14 wherein said nucleic acid construct comprises SEQ ID NO:1.